

FIG. 3

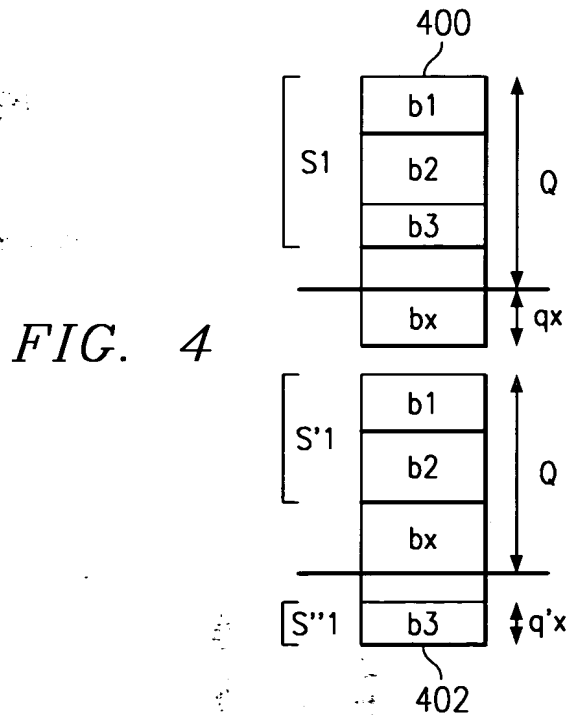


FIG. 4

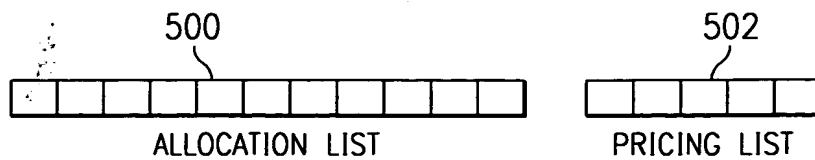
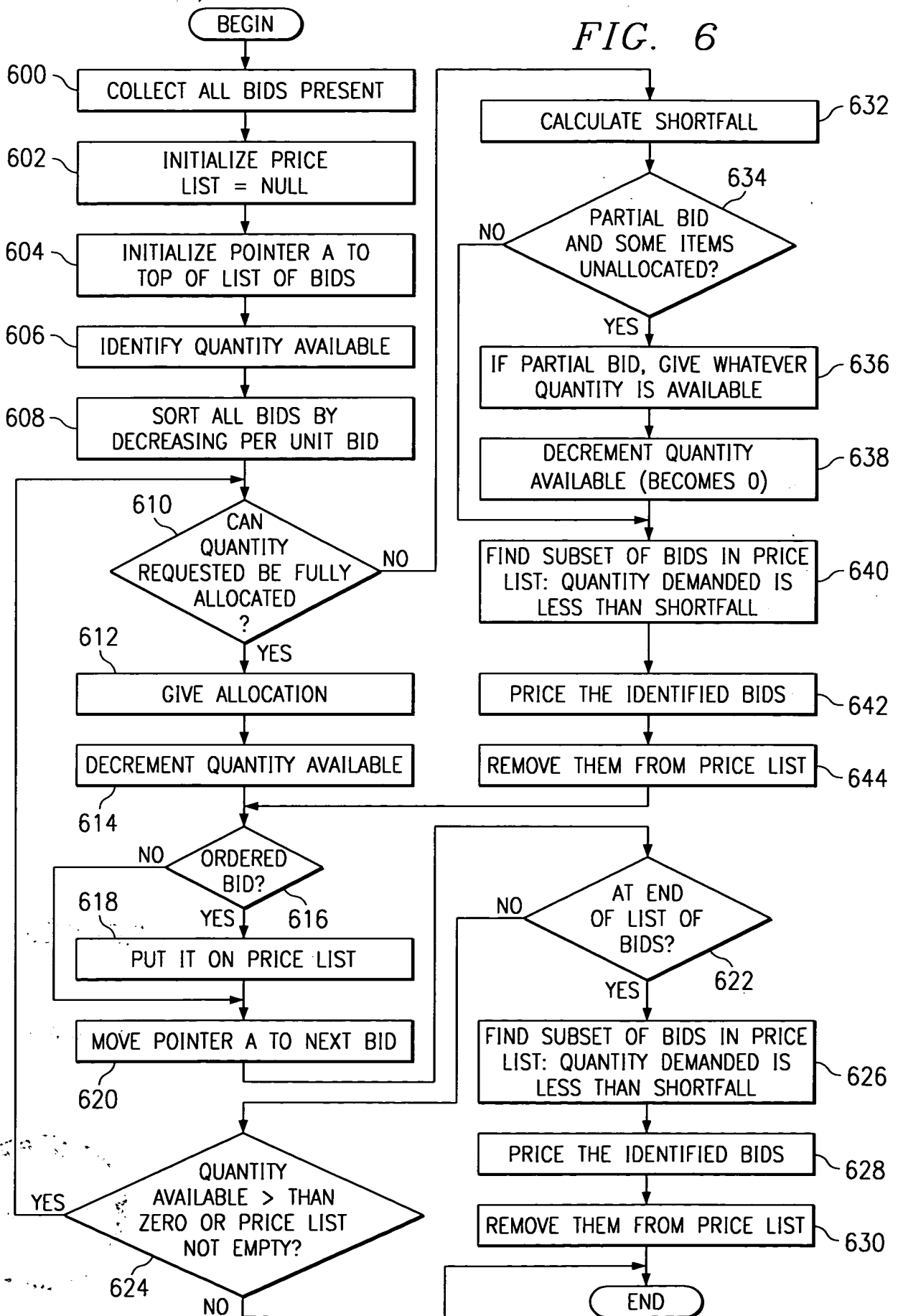
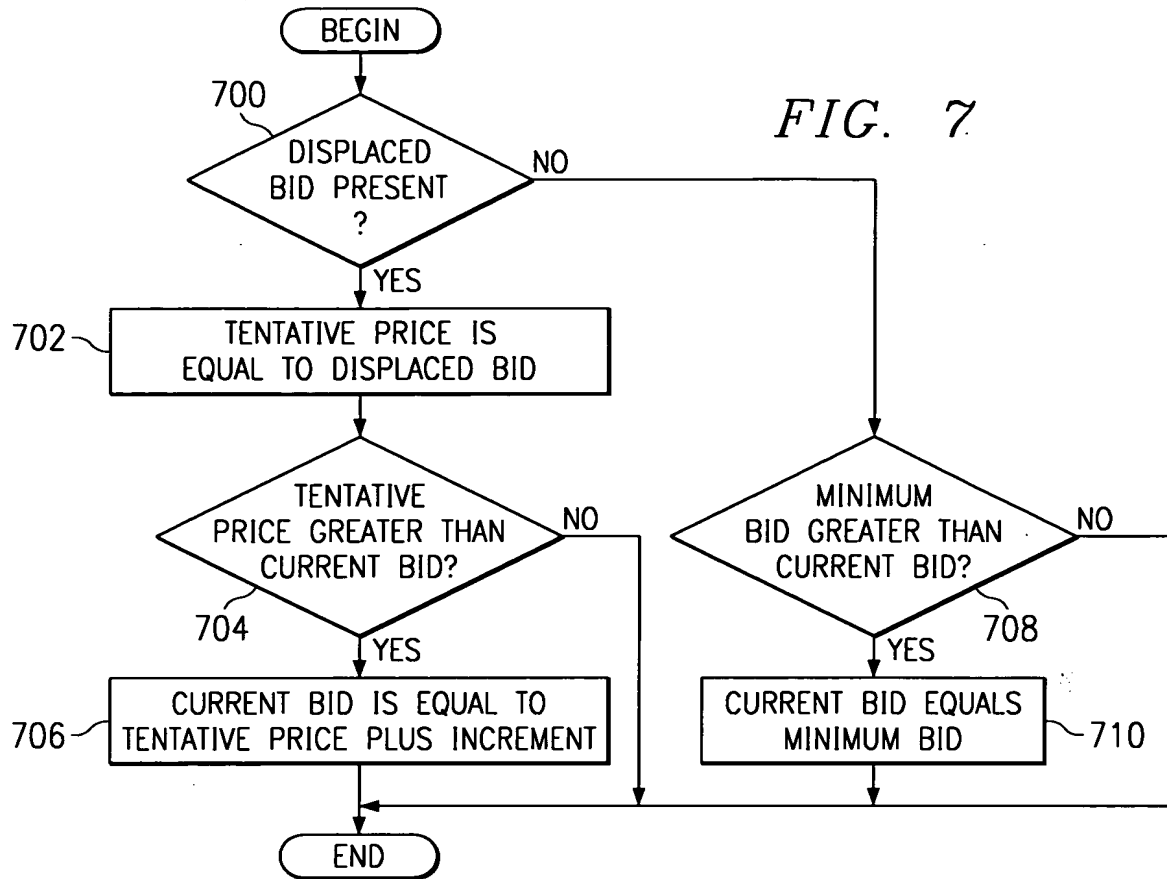


FIG. 5

FIG. 6



*FIG. 8*

q\_avail =  
q\_on\_stack = 0 ;

800

```

while (((q_avail > 0) || (q_on_stack > 0)) && (~EOL)) {
  If (current->q_need <= q_available) { // Full allocation
    If (This is an order bid) Stack_it
  }
  Else {
    If (current_bid is on partial bid) {short_fall = 1}
    Else {Shortfall = current->q_need - q_available} ;
    While (Shortfall <= q_on_stack) {
      price bids on stack ; /* Current bid is displacing them */
    }

    If (current bid is an order_bid) {
      Put bid on stack ;
      Increment q_on_stack ;
    }
  }

  While (((q_avail > 0) || (q_on_stack > 0)) && EOL) {
    price bids on stack ; /* No bids are displacing them */
  }
}
  
```